

## AMENDMENT TO THE CLAIMS

Please amend claims 4, 14, and 28 as follows:

1. (Previously Presented) A cell culture matrix composition, comprising:  
a tissue powder derived from a full and intact whole organ, a full and intact whole tissue, a portion of a full and intact whole organ or a portion of a full and intact whole tissue,  
wherein the organ is a liver, a lung, a kidney, a pancreas, a spleen, a testis, an intestinal wall, an adrenal gland, a thyroid gland, a parathyroid gland, an ovary or a brain, and the tissue is skin, muscle, a blood vessel wall or bone marrow.

Claim 2 (Canceled).

3. (Original) The composition of claim 1, further comprising a medium.
4. (Currently Amended) A method for producing a cell culture matrix composition ~~tissue powder~~, comprising:  
isolating a biological material selected from the group consisting of a full and intact whole organ, a full and intact whole tissue, a portion of a full and intact whole organ and a portion of a full and intact whole tissue; and  
creating the cell culture matrix composition by converting the biological material into the a tissue powder that is included in the cell culture matrix composition,  
wherein the biological material is a liver, a lung, a kidney, a pancreas, a spleen, a testis, an intestinal wall, an adrenal gland, a thyroid gland, a parathyroid gland, an ovary, a brain, skin, muscle, a blood vessel wall or bone marrow.
5. (Previously Presented) The method of claim 4, wherein said converting the

biological material further includes grinding the biological material to produce the tissue powder.

6. (Previously Amended) The method of claim 5, further including sonicating the tissue powder to produce a quantity of finer particles.
7. (Previously Presented) The method of claim 6, wherein said sonicating the tissue powder is performed with a sonic dismembrator.
8. (Previously Presented) The method of claim 6, wherein, prior to sonicating the tissue powder, the method further includes soaking the tissue powder in a medium.

Claim 9 (Canceled).

10. (Original) The method of claim 4, wherein isolating a biological material further includes employing a perfusion technique.
11. (Original) The method of claim 4, wherein after isolating the biological material, the method further includes freezing the biological material.
12. (Original) The method of claim 4, wherein, after isolating the biological material, the method further includes drying the biological material in a low-pressure tank.
13. (Original) The method of claim 11, wherein, after isolating the biological material but prior to freezing the biological material, the method further includes reducing the biological material into smaller pieces.
14. (Currently Amended) A method of using a cell culture matrix composition producing a cell matrix comprising:

providing cells;  
providing a cell culture matrix composition; and  
suspending the cells in a medium with the cell culture matrix composition,  
wherein the cell culture matrix composition comprises a tissue powder  
derived from a biological material selected from the group consisting of a full and  
intact whole organ, a full and intact whole tissue, a portion of a full and intact  
whole organ and a portion of a full and intact whole tissue, and  
wherein the biological material is a liver, a lung, a kidney, a pancreas, a  
spleen, a testis, an intestinal wall, an adrenal gland, a thyroid gland, a  
parathyroid gland, an ovary, a brain, skin, muscle, a blood vessel wall or bone  
marrow.

15. (Original) The method of claim 14, wherein providing cells further includes harvesting the cells from a mammal.
16. (Previously Amended) The method of claim 14, wherein the cells that are provided and suspended are of the same type as a type of cells present in the biological material.
17. (Original) The method of claim 14, wherein providing the cells further includes employing a perfusion technique.
18. (Original) The method of claim 14, wherein the method further includes periodically replacing the medium.

Claim 19 (Canceled).

20. (Original) The method of claim 14, wherein the cells are hepatocytes, lung cells, kidney cells, enterocytes, pancreatic islet cells, splenocytes, or neural cells.

Claim 21 (Canceled).

22. (Previously Amended) The method of claim 14, wherein the cells that are provided and suspended are of a different type than a type of cells present in the biological material.
23. (Previously Presented) A cell culture matrix composition, comprising:  
a fine tissue powder derived from a full and intact whole organ, a full and intact whole tissue, a portion of a full and intact whole organ or a portion of a full and intact whole tissue,  
wherein the fine tissue powder is produced by the process of grinding the full and intact whole organ, the full and intact whole tissue, the portion of a full and intact whole organ or the portion of a full and intact whole tissue to produce a ground tissue powder, and sonicating the ground tissue powder to produce the fine tissue powder.
24. (Previously Presented) A cell culture matrix composition, comprising:  
a tissue powder derived from a full and intact whole liver or a portion of a full and intact whole liver; and  
a medium.
25. (Previously Presented) A cell culture matrix composition, comprising:  
a tissue powder derived from a full and intact whole organ,  
wherein the full and intact whole organ is a liver, a lung, a kidney, a pancreas, a spleen, a testis, a small intestine, a colon, an adrenal gland, a thyroid gland, a parathyroid gland, an ovary or a brain.
26. (Previously Presented) The composition of claim 25, further comprising a medium.
27. (Previously Presented) A cell culture matrix composition, comprising:  
a fine tissue powder derived from a full and intact whole organ,

wherein the fine tissue powder is produced by the process of grinding the full and intact whole organ to produce a ground tissue powder, and sonicating the ground tissue powder to produce the fine tissue powder.

28. (Currently Amended) A method of using a cell culture matrix composition ~~producing a cell matrix~~, comprising:
- providing cells;
  - providing a cell culture matrix composition; and
  - suspending the cells in a medium with the cell culture matrix composition, wherein the cell culture matrix composition comprises a tissue powder derived from a full and intact whole organ, and
- wherein the full and intact whole organ is a liver, a lung, a kidney, a pancreas, a spleen, a testis, a small intestine, a colon, an adrenal gland, a thyroid gland, a parathyroid gland, an ovary or a brain.